

Science Advisory Committee Meeting at Thorpewood.

Landscape Resources Workgroup

Notes from 3-7-02

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<i>Ecosystem Component</i>	<i>Resource Component</i>	<i>Stressor</i>	<i>Sources</i>	<i>Ecological Effects</i>	<i>Severity of Threat</i> (High – Medium – Low - Unknown)	<i>Indicator/Vital Sign</i>
Composition	Forest Interior Habitat	Habitat Fragmentation / Edge Structure	Development	Loss of Habitat and species through habitat degradation		
Composition	Unique Habitats	Habitat Fragmentation / Edge Structure	Park Visitation, Altered disturbance regime	Habitat degradation, loss of species and ecosystem functions		
Composition	Unique Habitats	Exotics	Park Visitation, Altered disturbance regime	Habitat degradation, loss of species and ecosystem functions		
Composition	Unique Habitats	Species Over-abundance	Altered disturbance regime	Habitat degradation, loss of species and ecosystem functions		
Structure	Habitat Transition Zones	Habitat Fragmentation, Land use practices within and outside the park	Landscape use planning	Loss of Habitats and species		
Structure	Corridors	Land use practices	Development, Visitation possibly?	Habitat Fragmentation, increase in exotic species, increase in habitat edges.		
Composition	Watersheds	Inter-mixing of public and private lands	Land ownership, Land management objectives	Everything (can we provide more specific examples?) Deforestation and loss of habitats and species		

				Pollution Erosion and siltation of waterways impacting aquatics		
Structure	Habitat Structure (shape and configuration)	Habitat Fragmentation	Land use practices, Lack of facilitator to coordinate management	Loss of habitats and species; disrupted ecosystem functions		
Function	Resistance to Exotics	Habitat Fragmentation, land use practices within and outside the park	Lack of exotic species management	Loss of significant resources including species and communities; Change in ecosystem process.		
Composition	Meta-populations	Habitat Fragmentation	Lack of management, Land use practices, Development Park visitation?	Local extirpation of species; Small population sizes and decreased population viability		
Composition	Native Species	Species over-abundance	Loss of predators, Increase of certain habitats, species adaptation	Loss of habitat structure / composition; Loss of species of concern; disruption of ecosystem processes		
Structure / Function	Viewscape / Visitor Experience	Exotics, Air pollution, physical structures, forest management	Land management practices, Industry	Reduced aesthetics; Reduced interpretive prospective		
Function	Nutrient Exchange	Land management practices, watershed, herbivores, landscape structure	Agriculture, impervious surfaces, Industry, development	Nutrient depletion / accumulation, altered ecosystem structure / function		
Structure	Landscape Matrix (Greater	Habitat Fragmentation, Edge structure,	Land management practices, development, industry,	Altered ecosystem structure / function		

	Landscape)	exotics, species over-abundance, Land use practices	park visitation, lack of management coordination			
Function	Ecosystem Productivity (service / value)	Habitat Fragmentation, Edge structure, exotics, species over-abundance, Land use practices	Land management practices, development, industry, park visitation, lack of management coordination	Loss of ecosystem components / diminished service (Altered ecosystem structure / function??)		
Composition/ Structure/ Function	All natural Elements (More Specific??)	Cultural mandate	Legislation	Conflicting roles / management objectives		